4th RISE Symposium (Research Insights in Semiarid Ecosystems)
Saturday, 6 October 2007

Marley Building, Room 230

8:30-9:00	**Registration**	
9:00-9:05	**Mitch McClaran and Susan Moran**	RISE Welcome
9:05-9:10	**Mark Nearing USDA-ARS SWRC**	**Update:** WGEW Data Access Project
9:10-9:15	**Steve Archer UA SNR**	**Update:** National Ecological Observatory Network (NEON) on SRER
9:20-9:25	**George Ruyle UA SNR**	**Update:** New Livestock Grazing Management Program on SRER
9:30-9:50	**John Briggs & Nancy Grimm ASU CAP-LTER**	Ecological Response to Land Use Change Along an Urban – Wildland Gradient.
9:50-10:10	**Dave Goodrich USDA-ARS SWRC**	Rainfall and Runoff as a Function of Spatial and Temporal Scales and Event to Multi-decadal Persistence in Spatial Rainfall Variability.
10:10-10:30	**Joe Santanello NASA & ESSIC/UM**	Using Remotely-sensed Estimates of Soil Moisture to Infer Soil Texture and Hydraulic Properties Across WGEW.
10:30-11:00	**Poster introductions**	Poster abstracts presented by poster authors.
11:00-1:00	**Poster Session**	Authors will be with their posters in the hall outside the conference room.
12:00-1:00	Lunch w/ Posters	*Provided at the meeting by RISE*
1:00-1:15	**Peter Gierlach (Petey Mesquitey) KXCI Radio**	Near-life Experiences in the Desert Grassland.
1:15-1:20	**Mark Losleben NPN**	**Update:** National Phenology Network.
1:20-1:40	**Dan Papaj UA EEB**	Pipevine Swallowtail Butterfly Learning Behavior in Relation to Color Variation in *Aristolochia* Host Plants.
1:40-2:00	**Susan Skirvin UA GRD & MGE**	Assessing Vegetation Change Temporally and Spatially in Southeastern Arizona.
2:00-2:20	**Wim van Leeuwen UA OALS & GRD**	Detecting Phenological Changes in Vegetation Response to Climate Variation on the SRER and Nearby areas Areas.
2:20-2:30	Discussion	All speakers and poster authors will be in attendance.

POSTERS

1	**Jean McLain, Mitchel P. McClaran, Dean A. Martens USDA-ARS ALARC and UA SNR**	Soil Cycling of Methane in Response to Grazing and Mesquite Management in the Santa Rita Experimental Range.
2	**Brad Butterfield and John Briggs ASU**	Patch Dynamics of Soil Biotic Feedbacks in the Sonoran Desert.
3	**Brendan Yuill and Mary H. Nichols UA SNR and USDA-ARS SWRC**	Sediment Transport Dynamics in a Low-ordered, Semi-arid Watershed and the Difference Between the Controlling Processes for the Fine and Coarse Load.
4	**T. Meixner, P. Brooks, J. Hogan, G. Oelsner, M. Baillie, C. Soto, S. Simpson UA HWR**	Significance of Overland Flow in Sustaining Water Resources of Arid and Semi-arid Rivers - Water Quantity and Quality Implications.
5	**Juan C. Villegas, David D. Breshears, Chris B. Zou UA SNR**	Soil Evaporation as a Function of Canopy Cover: Method Calibration and Preliminary Observations at the Santa Rita Experimental Range.
6	**Alona Bachi and Michael L. Rosenzweig UA EEB**	The Tucson Hummingbird Project: An Experimental Study of Community Ecology and Reconciliation on a City-wide Scale.
7	**Wade Leitner and Larry Norris BirdWorks, LLC**	Inventory and Monitoring of Bird Populations in Florida Canyon on the Santa Rita Experimental Range.
8	**Mark Losleben and Jake Weltzin NPN**	The USA National Phenology Network: Phenology as an Integrative Science for Assessment of Global Change Impacts.

9	**Jennifer Davison, Jahan Kariyeva, Willem van Leeuwen** **UA OALS and GRD**	Precipitation and Vegetation Phenology In and Around the Santa Rita Experimental Range: Comparison of Three Remote Measures.
10	**Steve Woods, Steve Archer, Susan Schwinning** **UA SNR**	Influences of Shrub Seedling Root Development on Initial Establishment and Encroachment Potential.
11	**Michaela Buenemann** **UA GRD**	Quantifying the Spatio-Temporal Dynamics of Woody Plant Encroachment: An Integrative Remote Sensing, GIS, and Spatial Modeling Approach
12	**Fadzayi Mashiri and Mitchel McClaran** **UA SNR**	Long-term Effects of Yearlong and Seasonal Rotation Grazing on the Spatial Homogeneity of Grass.
13	**Chris McDonald** **UA SNR**	Survival of Lehmann Lovegrass Plants After a Prescribed Fire.
14	**Erik Hamerlynck, Chandra Holifield Collins and Jeff Stone** **USDA-ARS SWRC**	Shifts in Canopy and Ground Cover Following Lehmann's Lovegrass Invasion.
15	**Jason Stevens and Jeffrey S. Fehmi** **UA SNR**	Soil Inoculation of *Digitaria californica* Plugs and Iimplications for Ecological Restoration in Semi-arid Environments.
16	**Aaryn Olsson and Kristin Wisneski** **UA OALS**	Geospatial Collaboration for Buffelgrass Control on the SRER.
17	**Kristin Wisneski, Aaryn Olsson, Barron Orr and Mitch McClaran** **UA OALS and SNR**	Utilizing Geospatial Technologies for Invasive Species Mapping & Control.
18	**Abigail Roanhorse and Vince Jenkins** **UA ABE**	High-resolution Aerial Photography with Remotely Piloted Vehicles.
19	**Amalia Slaughter** **Andrea S. Laliberte, Craig Winters and Albert Rango** **USDA-ARS JER**	Acquisition, Orthorectification, and Classification of Hyperspatial UAV Imagery.
20	**Dawn Browning, Andrew Byrne, and Steve Archer** **UA SNR**	How Big is Big? Field Validation of Historic Aerial Photography.

RISE Organizing Committee:
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Acronyms:
ABE: Agriculture and Biosystems Engineering
ALARC: Arid Lands Agricultural Research Center
ARS: Agricultural Research Service
ASU: Arizona State University
CAP-LTER: Central Arizona-Phoenix Long-term Ecological Research
EEB: Ecology and Evolutionary Biology
ESSIC: Earth System Science Interdisciplinary Center
GRD: Department of Geography and Regional Development
HWR: Department of Hydrology and Water Resources
JER: Jornada Experimental Range
MGE: Mining and Geological Engineering
NASA: National Aeronautics and Space Administration
NPN: National Phenology Network
OALS: Office of Arid Lands Studies
SNR: School of Natural Resources
SWRC: Southwest Watershed Research Center
UA: University of Arizona
UM: University of Maryland